

INTERNATIONAL SEARCH REPORT

International application No.

PCT/KR2005/000599

A. CLASSIFICATION OF SUBJECT MATTER**IPC7 H04R 7/00**

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 H04L 41/22 H01G 7/02 H04R 3/00 H04R 3/14 H04R 17/00 H01L 41/08

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched
KOREAN PATENTS AND APPLICATIONS FOR INVENTIONS SINCE 1975

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

WPI, PAJ "PIEZO*" "ELECTROSTRICTIVE*" "SPEAKER*" "TRANSDUCER"

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	EP 0 014 043 A1 (INTERNATIONAL STANDARD ELECTRIC CO) 06 AUGUST 1980 see the whole document	1-8
Y	JP 58-5100 (MURATA MFG CO. LTD) 12 JANUARY 1983 figures, see the whole document	1-8
Y	JP 59-77796 (MURATA MFG CO. LTD) 04 MAY 1984 figures, see the whole document	9
Y	JP 04-326300 (MURATA MFG CO. LTD) 16 NOVEMBER 1992 see the whole document	9
A	JP 09-327094 (MURATA MFG CO. LTD) 16 DECEMBER 1997 see the whole document	9

☐ Further documents are listed in the continuation of Box C.☒ See patent family annex.

* Special categories of cited documents:

"A" document defining the general state of the art which is not considered to be of particular relevance

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"O" document referring to an oral disclosure, use, exhibition or other means

"P" document published prior to the international filing date but later than the priority date claimed

"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art

"&" document member of the same patent family

Date of the actual completion of the international search

29 JUNE 2005 (29.06.2005)

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30 JUNE 2005 (30.06.2005)

Name and mailing address of the ISA/KR

Korean Intellectual Property Office
920 Dunsan-dong, Seo-gu, Daejeon 302-701,
Republic of Korea

Facsimile No. 82-42-472-7140

Authorized officer

SEO, Hawthorne

Telephone No. 82-42-481-5670



INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No.

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Patent document cited in search report	Publication date	Patent family member(s)	Publication date
EP 0014043 A1	1980.08.06	JP 55103780	1980.08.08
		US 4340786	1982.07.20